(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
10 March 2005 (10.03.2005)

PCT

(10) International Publication Number
WO 2005/022182 A1

(51) International Patent Classification[7]: G01R 33/02

(21) International Application Number:
PCT/KR2004/002194

(22) International Filing Date:
1 September 2004 (01.09.2004)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2003-0061235
2 September 2003 (02.09.2003) KR
10-2004-0069156 31 August 2004 (31.08.2004) KR

(71) Applicant *(for all designated States except US)*: **MEMS DNS TECH CO., LTD.** [KR/KR]; 85-3 Poongdukcheon-dong, Yongin-shi, Kyunggi-do 449-170 (KR).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **MIN, Dong-Hoon** [KR/KR]; 408 Dongsak-dong, Pyungtak, Kyunggi-do 450-802 (KR).

(74) Agent: **KIM, Inhan**; Daerim Bldg., 5th Floor, 1695-4 Seo-cho-dong, Seocho-ku, Seoul 137-883 (KR).

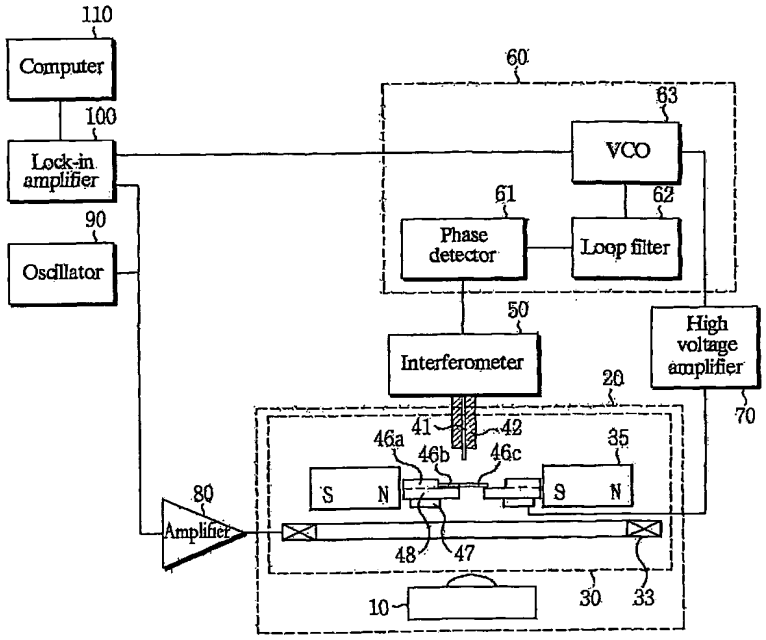
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

[Continued on next page]

(54) Title: ULTRA SENSITIVE IN-SITU MAGNETOMETER SYSTEM



(57) Abstract: The present invention relates to an ultra sensitive in-situ magnetometer system, and more particularly to an ultra sensitive in-situ magnetometer system that can in-situ monitor a magnetic moment of a magnetic thin film with sub-monolayer precision while depositing and growing the magnetic thin film in an ultra high vacuum (UHV) chamber.

WO 2005/022182 A1

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.